

STN

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(FILE 'HOME' ENTERED AT 14:32:47 ON 05 MAR 2007)

FILE 'CASREACT' ENTERED AT 14:33:07 ON 05 MAR 2007

L1 STRUCTURE uploaded
L2 0 SEA SSS SAM L1 (0 REACTIONS)

FILE 'LCASREACT' ENTERED AT 14:34:45 ON 05 MAR 2007

L3 0 SEA SSS SAM L1 (0 REACTIONS)
L4 0 SEA SSS FUL L1 (0 REACTIONS)

FILE 'CAPLUS' ENTERED AT 14:35:12 ON 05 MAR 2007

L5 131 SEA ABB=ON PLU=ON UMETANI H?/AU
L6 1988 SEA ABB=ON PLU=ON KOMATSU H?/AU
L7 4900 SEA ABB=ON PLU=ON ANDO T?/AU
L8 243 SEA ABB=ON PLU=ON TOGASHI K?/AU
L9 15 SEA ABB=ON PLU=ON L5 AND (L6 OR L7 OR L8)
L10 4 SEA ABB=ON PLU=ON L6 AND (L7 OR L8)
L11 6 SEA ABB=ON PLU=ON L7 AND L8
L12 18 SEA ABB=ON PLU=ON (L9 OR L10 OR L11)
L13 2 SEA ABB=ON PLU=ON L5 AND L6 AND L7 AND L8
D SCA
L14 604245 SEA ABB=ON PLU=ON CASREACT/OS
L15 11 SEA ABB=ON PLU=ON L12 AND L14
L16 2 SEA ABB=ON PLU=ON L13 AND L14
SEL AN

FILE 'CASREACT' ENTERED AT 14:37:33 ON 05 MAR 2007

L17 2 SEA ABB=ON PLU=ON ("141:123853"/AN OR "142:129784"/AN OR
"2004:566628"/AN OR "2005:33107"/AN)
L18 0 SEA SUB=L17 SSS SAM L1 (0 REACTIONS)
D STAT QUE L2
L19 5 SEA SSS FUL L1 (11 REACTIONS)
SAVE TEMP L19 KAT2991L/A
L20 1 SEA ABB=ON PLU=ON L19 AND L17

FILE 'STNGUIDE' ENTERED AT 14:40:28 ON 05 MAR 2007

FILE 'CASREACT' ENTERED AT 14:45:00 ON 05 MAR 2007

L21 STRUCTURE uploaded
L22 0 SEA SUB=L19 SSS SAM L21 (0 REACTIONS)
L23 0 SEA SUB=L19 SSS FUL L21 (0 REACTIONS)
D SCA L19

FILE 'CAPLUS' ENTERED AT 14:48:50 ON 05 MAR 2007

D STAT QUE L12
D IBIB ABS L12 1-18

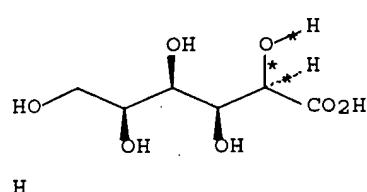
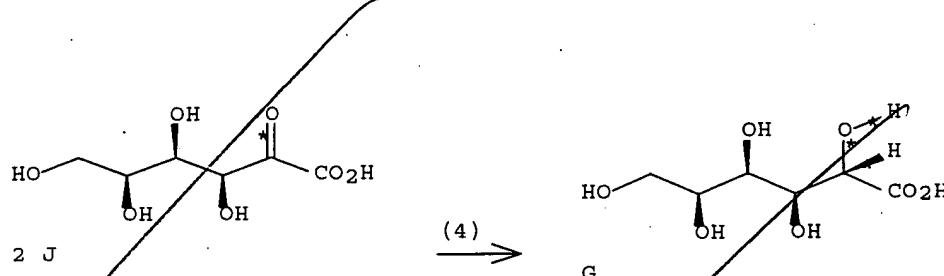
FILE 'CASREACT' ENTERED AT 14:49:56 ON 05 MAR 2007

D STAT QUE L19
D IBIB ABS HIT L19 1-5

FILE HOME

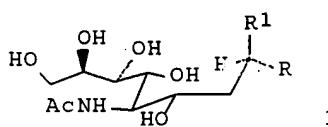
FILE CASREACT

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RX (4) RCT J 526-98-7
 RGT D 1333-74-0 H2
 PRO G 526-97-6, H 1114-17-6
 CAT 7440-02-0 Ni
 SOL 7732-18-5 Water
 CON 2 hours, 110 deg C, 50 bar, neutralized
 NTE high pressure, Raney nickel used

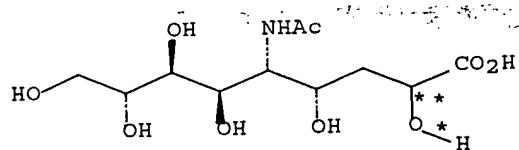
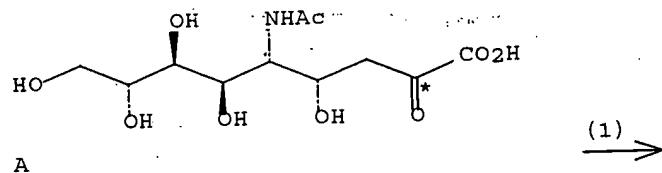
L19 ANSWER 3 OF 5 CASREACT COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 133:238223 CASREACT Full-text
 TITLE: A new preparation of the diastereoisomeric
 N-acetylneuraminic alditols
 AUTHOR(S): Ooi, Hua Chee; Marcuccio, Sebastian M.; Jackson, W.
 Roy
 CORPORATE SOURCE: Department of Chemistry, Monash University, Vic, 3800,
 Australia
 SOURCE: Australian Journal of Chemistry (2000), 53(3), 171-174
 CODEN: AJCHAS; ISSN: 0004-9425
 PUBLISHER: CSIRO Publishing
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB Acylation of the alditols I ($R, R_1 = OH, CO_2H$) obtained by sodium borohydride reduction of N-acetylneurameric acid (Neu5Ac) gives a mixture of lactones which can be separated and deprotected without epimerization yielding pure

samples of the diastereoisomeric N-acetylneuraminic alditols I (R = OH, R1 = CO₂H; R = CO₂H, R1 = OH).
 REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

RX(1) OF 9 A ==> B...



B
YIELD 85%

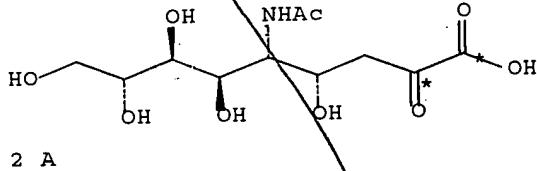
RX(1) RCT A 131-48-6

STAGE(1)
RGT C 16940-66-2 NaBH4
SOL 7732-18-5 Water

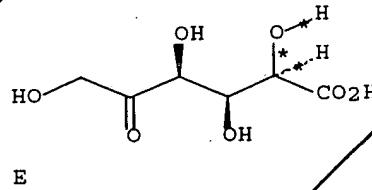
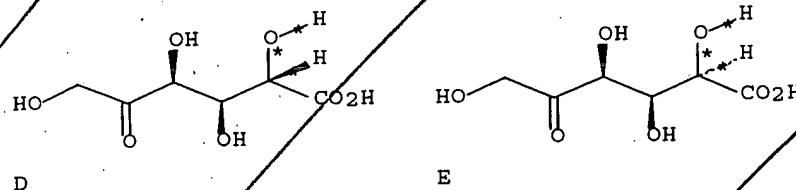
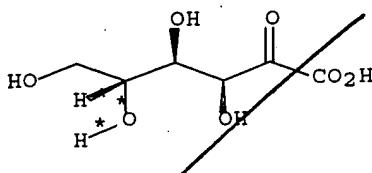
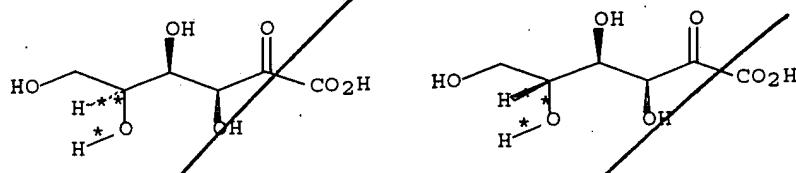
STAGE(2)
SOL 67-56-1 MeOH

PRO B 85441-66-3
NTE ION EXCHANGE RESIN USED

RX(8) OF 9 COMPOSED OF RX(1), RX(2), RX(3)
RX(8) 2 A + 10 F ==> L



10 F 3 STEPS



RX(1) RCT A 2595-33-7
 RGT F 1333-74-0 H2, G 7681-82-5 NaI
 PRO B 526-98-7, C 669-90-9, D 13425-76-8, E 5287-64-9
 CAT 7440-18-8D Ru
 SOL 7732-18-5 Water
 NTE stereoselective, regioselective

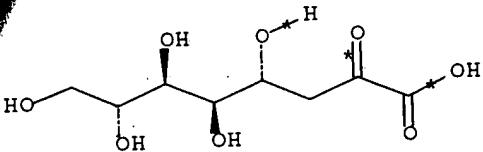
L19 ANSWER 5 OF 5 CASREACT COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 109:231400 CASREACT Full-text
 TITLE: Hydrolysis of glycosides under reducing conditions
 AUTHOR(S): Garegg, Per J.; Lindberg, Bengt; Konradsson, Peter;
 Kvarnstrom, Ingemar
 CORPORATE SOURCE: Dep. Org. Chem., Univ. Stockholm, Stockholm, S-106 91,
 Swed.

SOURCE: Carbohydrate Research (1988), 176(1), 145-8
 CODEN: CRBRAT; ISSN: 0008-6215

DOCUMENT TYPE: Journal
 LANGUAGE: English

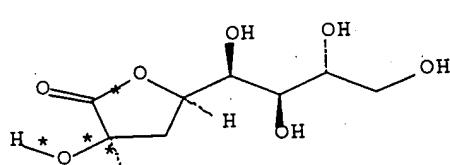
AB Glycosides were hydrolyzed and the resulting sugars reduced on treatment with NaBH2(CN)2 in 2M CF3CO2H (40 h at 100°) acid-labile sugars (e.g., D-fructose, 3,6-dideoxy-D-xylo-hexose, and 2-deoxy-D-arabino-hexose) were not degraded under these conditions. A disadvantage is that not only the alditols but also several anhydroalditols are formed. The reagent 4-methylmorpholine-borane was also examined for title redns.

RX(19) OF 23 2 BA ==> BB + BC

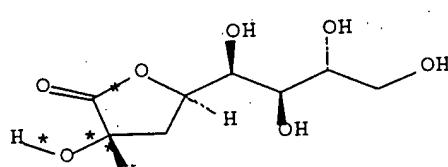


2 BA
glycoside deri
V.

(19) \rightarrow



BB



BC

RX(19) RCT BA 10149-14-1D
 RGT AO 109-02-4 N-Methylmorpholine, H 7732-18-5 Water, BD 64-19-7
 ACOH
 PRO BB 25218-27-3, BC 25218-26-2
 SOL 7732-18-5 Water